

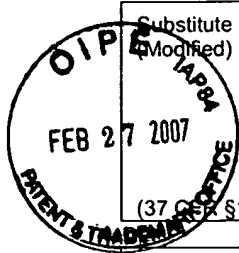
Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 20674-010US1	Application No. 10/599,851
		Applicant Kappes, et al.	
		Filing Date October 11, 2006	Group Art Unit

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AA	Amacker, M., Hottiger, M. and Hubscher, U. (1995) Feline immunodeficiency virus reverse transcriptase: expression, functional characterization, and reconstitution of the 66- and 51-kilodalton subunits. J. Virol., 69, 6273-6279.
	AB	Arnold, E., Jacobo-Molina, A., Nanni, R.G., Williams, R.L., Lu, X., Ding, J., Clark, A.D., Jr., Zhang, A., Ferris, A.L., Clark, P. and et al. (1992) Structure of HIV-1 reverse transcriptase/DNA complex at 7 Å resolution showing active site locations. Nature, 357, 85-89
	AC	Arts, E.J., Li, X., Gu, Z., Kleiman, L., Parniak, M.A. and Wainberg, M.A. (1994) Comparison of deoxyligonucleotide and tRNA(Lys-3) as primers in an endogenous human immunodeficiency virus-1 in vitro reverse transcription/template-switching reaction. J. Biol. Chem., 269, 14672-14680
	AD	Baillon, J.G., Nashed, N.T., Kumar, A., Wilson, S.H. and Jerina, D.M. (1991) A leucine zipper-like motif may mediate HIV reverse transcriptase subunit binding. New Biol., 3, 1015-1019
	AE	Balzarini, J. "Current status of the non-nucleoside reverse transcriptase inhibitors of human immunodeficiency virus type 1." Curr. Top. Med. Chem. 4:921-44 (2004).
	AF	Boyer, P.L., Ding, J., Arnold, E. and Hughes, S.H. (1994) Subunit specificity of mutations that confer resistance to nonnucleoside inhibitors in human immunodeficiency virus type 1 reverse transcriptase. Antimicrob. Agents Chemother., 38, 1909-1914
	AG	Boyer, P.L., Ferris, A.L. and Hughes, S.H. (1992) Cassette mutagenesis of the reverse transcriptase of human immunodeficiency virus type 1. J. Virol., 66, 1031-1039.
	AH	Cabodevilla, J. F., Odriozola, L., Santiago, E. & Martinez-Irujo, J. J. "Factors affecting the dimerization of the p66 form of HIV-1 reverse transcriptase." Eur. J. Biochem. 268, 1163-72 (2001).
	AI	Chao et al., Mutational sensitivity patterns define critical residues in the palm subdomain for the reverse transcriptase of human immunodeficiency virus type 1. Nucleic Acids Research 23(5):803-10 (1995)
	AJ	di Marzo Veronese, F., Copeland, T.D., DeVico, A.L., Rahman, R., Oroszlan, S., Gallo, R.C. and Sarngadharan, M.G. (1986) Characterization of highly immunogenic p66/p51 as the reverse transcriptase of HTLV-III/LAV. Science, 231, 1289-1291.

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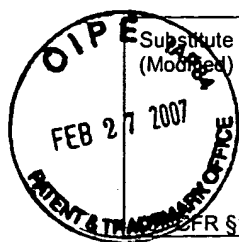


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	AK	Ding, J., Das, K., Hsiou, Y., Sarafianos, S.G., Clark, A.D., Jr., Jacobo-Molina, A., Tantillo, C., Hughes, S.H. and Arnold, E. (1998) Structure and functional implications of the polymerase active site region in a complex of HIV-1 RT with a double-stranded DNA template-primer and an antibody Fab fragment at 2.8 Å resolution. J. Mol. Biol., 284, 1095-1111.
	AL	Divita, G., Restle, T., Goody, R.S., Chermann, J.C. and Baillon, J.G. (1994) Inhibition of human immunodeficiency virus type 1 reverse transcriptase dimerization using synthetic peptides derived from the connection domain. J. Biol. Chem., 269, 13080-13083.
	AM	Divita, G., Baillon, J. G., Rittinger, K., Chermann, J. C. & Goody, R. S. "Interface peptides as structure-based human immunodeficiency virus reverse transcriptase inhibitors. J. Biol. Chem. 270:28642-6 (1995)
	AN	Divita, G., Rittinger, K., Geourjon, C., Deleage, G. & Goody, R. S. "Dimerization kinetics of HIV-1 and HIV-2 reverse transcriptase: a two step process. J. Mol. Biol. 245:508-21 (1995)
	AO	Divita, G., Rittinger, K., Restle, T., Immerdorfer, U. & Goody, R.S. Conformational stability of dimeric HIV-1 and HIV-2 reverse transcriptases." Biochemistry 34:16337-46 (1995).
	AP	Dubay, J.W., Roberts, S.J., Hahn, B.H. and Hunter, E. (1992) Truncation of the human immunodeficiency virus type 1 transmembrane glycoprotein cytoplasmic domain blocks virus infectivity. J. Virol., 66, 6616-6625.
	AQ	Duke, G.M., Hoffman, M.A. and Palmenberg, A.C. (1992) Sequence and structural elements that contribute to efficient encephalomyocarditis virus RNA translation. J. Virol., 66, 1602-1609.
	AR	Fassati, A. and Goff, S.P. (2001) Characterization of intracellular reverse transcription complexes of human immunodeficiency virus type 1. J. Virol., 75, 3626-3635.
	AS	Ghosh, M., Jacques, P.S., Rodgers, D.W., Ottman, M., Darlix, J.L. and Le Grice, S.F. (1996) Alterations to the primer grip of p66 HIV-1 reverse transcriptase and their consequences for template-primer utilization. Biochemistry, 35, 8553-8562.
	AT	Ghosh, S.K., Fultz, P.N., Keddie, E., Saag, M.S., Sharp, P.M., Hahn, B.H. and Shaw, G.M. (1993) A molecular clone of HIV-1 tropic and cytopathic for human and chimpanzee lymphocytes. Virology, 194, 858-864.
	AU	Goel, R., Beard, W. A., Kumar, A., Casas-Finet, J. R., Strub, M. P., Stahl, S. J., Lewis, M. S., Bebenek, K., Becerra, S. P., Kunkel, T. A. & et al. "Structure/function studies of HIV-1(1) reverse transcriptase: dimerization-defective mutant L289K. Biochemistry 32:13012-8 (1993).
	AV	Harris, D., Yadav, P.N. and Pandey, V.N. (1998) Loss of polymerase activity due to Tyr to Phe substitution in the YMDD motif of human immunodeficiency virus type-1 reverse transcriptase is compensated by Met to Val substitution within the same motif. Biochemistry, 37, 9630-9640.
	AW	Hizi, A., McGill, C. and Hughes, S.H. (1988) Expression of soluble, enzymatically active, human immunodeficiency virus reverse transcriptase in Escherichia coli and analysis of mutants. Proc. Natl. Acad. Sci. U S A, 85, 1218-1222.
	AX	Hostomsky, Z., Hostomska, Z., Fu, T.B. and Taylor, J. (1992) Reverse transcriptase of human immunodeficiency virus type 1: functionality of subunits of the heterodimer in DNA synthesis. J. Virol., 66, 3179-3182.
	AY	Hottiger, M., Podust, V.N., Thimmig, R.L., McHenry, C. and Hubscher, U. (1994) Strand displacement activity of the human immunodeficiency virus type 1 reverse transcriptase heterodimer and its individual subunits. J. Biol. Chem., 269, 986-991.

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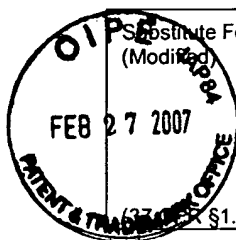
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	AZ	Huang, H., Chopra, R., Verdine, G.L. and Harrison, S.C. (1998) Structure of a covalently trapped catalytic complex of HIV-1 reverse transcriptase: implications for drug resistance. Science, 282, 1669-1675.
	AAA	Hughes, S.H. (2001) Molecular matchmaking: NNRTIs can enhance the dimerization of HIV type 1 reverse transcriptase. Proc. Natl. Acad. Sci. U S A, 98, 6991-6992.
	ABB	Jacques, P.S., Wohrl, B.M., Howard, K.J. and Le Grice, S.F. (1994) Modulation of HIV-1 reverse transcriptase function in "selectively deleted" p66/p51 heterodimers. J. Biol. Chem., 269, 1388-1393.
	ACC	Jonckheere, H., Taymans, J.M., Balzarini, J., Velazquez, S., Camarasa, M.J., Desmyter, J., De Clercq, E. and Anne, J. (1994) Resistance of HIV-1 reverse transcriptase against [2',5'-bis-O-(tert-butylidimethylsilyl)-3'-spiro-5''-(4''-amino-1'',2''-oxathiole-2'',2''-dioxide)] (TSAO) derivatives is determined by the mutation Glu138-->Lys on the p51 subunit. J. Biol. Chem., 269, 25255-25258.
	ADD	Kamer, G. and Argos, P. (1984) Primary structural comparison of RNA-dependent polymerases from plant, animal and bacterial viruses. Nucleic Acids Res., 12, 7269-7282.
	AEE	Kimpton, J. and Emerman, M. (1992) Detection of replication-competent and pseudotyped human immunodeficiency virus with a sensitive cell line on the basis of activation of an integrated beta-galactosidase gene. J. Virol., 66, 2232-2239.
	AFF	Kohlstaedt, L.A., Wang, J., Friedman, J.M., Rice, P.A. and Steitz, T.A. (1992) Crystal structure at 3.5 Å resolution of HIV-1 reverse transcriptase complexed with an inhibitor. Science, 256, 1783-1790.
	AGG	Kozak, M. (1987) At least six nucleotides preceding the AUG initiator codon enhance translation in mammalian cells. J. Mol. Biol., 196, 947-950.
	AHH	Kutsch, O., Levy, D. N., Bates, P. J., Decker, J., Kosloff, B. R., Shaw, G. M., Priebe, W. & Benveniste, E. N. "Bis-anthracycline antibiotics inhibit human immunodeficiency virus type 1 transcription. Antimicrob. Agents Chemother. 48:1652-63 (2004).
	AII	Larder, B., Purifoy, D., Powell, K. and Darby, G. (1987a) AIDS virus reverse transcriptase defined by high level expression in Escherichia coli. EMBO J., 6, 3133-3137.
	AJJ	Larder, B.A., Purifoy, D.J., Powell, K.L. and Darby, G. (1987b) Site-specific mutagenesis of AIDS virus reverse transcriptase. Nature, 327, 716-717.
	AKK	Le Grice, S.F., Naas, T., Wohlgensinger, B. and Schatz, O. (1991) Subunit-selective mutagenesis indicates minimal polymerase activity in heterodimer-associated p51 HIV-1 reverse transcriptase. EMBO J., 10, 3905-3911.
	ALL	Lightfoote, M.M., Coligan, J.E., Folks, T.M., Fauci, A.S., Martin, M.A. and Venkatesan, S. (1986) Structural characterization of reverse transcriptase and endonuclease polypeptides of the acquired immunodeficiency syndrome retrovirus. J. Virol., 60, 771-775.
	AMM	Liu, H., Wu, X., Xiao, H., Conway, J.A. and Kappes, J.C. (1997) Incorporation of functional human immunodeficiency virus type 1 integrase into virions independent of the Gag-Pol precursor protein. J. Virol., 71, 7704-7710.
	ANN	Lowe, D.M., Parmar, V., Kemp, S.D. and Larder, B.A. (1991) Mutational analysis of two conserved sequence motifs in HIV-1 reverse transcriptase. FEBS Lett., 282, 231-234.
	AOO	Loya, S., Gao, H.Q., Avidan, O., Boyer, P.L., Hughes, S.H. and Hizi, A. (1997) Subunit-specific mutagenesis of the cysteine 280 residue of the reverse transcriptase of human immunodeficiency virus type 1: effects on sensitivity to a specific inhibitor of the RNase H activity. J. Virol., 71, 5668-5672.

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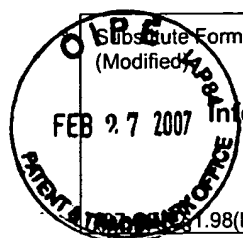
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	APP	Lu, Y.L., Spearman, P. and Ratner, L. (1993) Human immunodeficiency virus type 1 viral protein R localization in infected cells and virions. <i>J. Virol.</i> , 67, 6542-6550.
	AQQ	Madrid, M., Lukin, J. A., Madura, J. D., Ding, J. & Arnold, E. "Molecular dynamics of HIV-1 reverse transcriptase indicates increased flexibility upon DNA binding." <i>Proteins</i> 45:176-82 (2001).
	ARR	Menendez-Arias, L., Abraha, A., Quinones-Mateu, M.E., Mas, A., Camarasa, M.J. and Arts, E.J. (2001) Functional characterization of chimeric reverse transcriptases with polypeptide subunits of highly divergent HIV-1 group M and O strains. <i>J. Biol. Chem.</i> , 276, 27470-27479.
	ASS	Morris, M.C., Robert-Hebmann, V., Chaloin, L., Mery, J., Heitz, F., Devaux, C., Goody, R.S. and Divita, G. (1999) A new potent HIV-1 reverse transcriptase inhibitor. A synthetic peptide derived from the interface subunit domains. <i>J. Biol. Chem.</i> , 274, 24941-24946.
	ATT	Morris, M. D., Berducou, C., Mery, J., Heitz, F. & Divita, G. "The thumb domain of the P51-subunit is essential for activation of HIV reverse transcriptase. <i>Biochemistry</i> 38:15097-103 (1999).
	AUU	Mulky et al., Subunit-specific analysis of the human immunodeficiency virus type 1 reverse transcriptase (p51/p66) <i>in vivo</i> . <i>Journal of Virology</i> 78(13):7089-96 (2004)
	AVV	Ochsenbauer-Jambor C, Jones J, Heil M, Zammit KP, Kutsch O., T-cell line for HIV drug screening using EGFP as a quantitative marker of HIV-1 replication. <i>Biotechniques</i> 40(1):91-100 (2006)
	AWW	Olivares, I., Gutierrez-Rivas, M., Lopez-Galindez, C. & Menendez-Arias, L. "HIV-1 reverse transcriptase: critical role of Phe-130 for p51 function and second-site revertant restoring viral replication capacity." <i>Virology</i> 324, 400-11 (2004).
	AXX	Pandey, P. K., Kaushik, N., Talele, T. T., Yadav, P. N. & Pandey, V. N. "The beta7-beta8 loop of the p51 subunit in the heterodimeric (p66/p51) human immunodeficiency virus type 1 reverse transcriptase is essential for the catalytic function of the p66 subunit." <i>Biochemistry</i> 40, 9505-12 (2001).
	AYY	Paxton, W., Connor, R.I. and Landau, N.R. (1993) Incorporation of Vpr into human immunodeficiency virus type 1 virions: requirement for the p6 region of gag and mutational analysis. <i>J. Virol.</i> , 67, 7229-7237.
	AZZ	Platt, E.J., Wehrly, K., Kuhmann, S.E., Chesebro, B. and Kabat, D. (1998) Effects of CCR5 and CD4 cell surface concentrations on infections by macrophagetropic isolates of human immunodeficiency virus type 1. <i>J. Virol.</i> , 72, 2855-2864.
	AAAA	Post et al., Human immunodeficiency virus type 2 reverse transcriptase activity in model systems that mimic steps in reverse transcription. <i>Journal of Virology</i> 77(13):7623-34 (2003)
	ABBB	Prasad, V.R. and Goff, S.P. (1989) Linker insertion mutagenesis of the human immunodeficiency virus reverse transcriptase expressed in bacteria: definition of the minimal polymerase domain. <i>Proc. Natl. Acad. Sci. U S A</i> , 86, 3104-3108.
	ACCC	Quillent, C., Borman, A. M., Paulous, S., Dauguet, C. & Clavel, F. "Extensive processing and particle maturation." <i>Virology</i> 219:29-36 (1996).
	ADDD	Restle, T., Muller, B. and Goody, R.S. (1990) Dimerization of human immunodeficiency virus type 1 reverse transcriptase. A target for chemotherapeutic intervention. <i>J. Biol. Chem.</i> , 265, 8986-8988.
	AEEE	Rodriguez-Barrios, F., Perez, C., Lobaton, E., Velazquez, S., Chamorro, C., San-Felix, A., Perez-Perez, M.J., Camarasa, M. J., Pelemans, H., Balzarini, J. & Gago, F. "Identification of a putative binding site for [2', 5'-bis-O-(tert-butyldimethylsilyl)-beta-D-ribofuranosyl]-3'-spiro-5"- (4"-amino-1",2"-oxathiole-2",2"-eioxide)thymine (TSAO) derivatives at the p51-p66 interface of HIV-1 reverse transcriptase." <i>J. Meal Chem.</i> 44: 1853-65 (2001).

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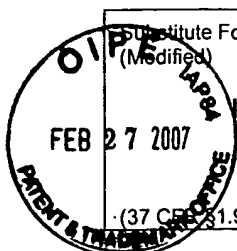
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	AFFF	Sarafianos, S.G., Das, K., Tantillo, C., Clark, A.D., Jr., Ding, J., Whitcomb, J.M., Boyer, P.L., Hughes, S.H. and Arnold, E. (2001) Crystal structure of HIV-1 reverse transcriptase in complex with a polypurine tract RNA:DNA. EMBO J., 20, 1449-1461.
	AGGG	Sarafianos, S. G., Das, K., Ding, J., Boyer, P. L., Hughes, S. H. & Arnold, E. "Touching the heart of HIV-1 drug resistance: the fingers close down on the dNTP at the polymerase active site." Chem. Biol. 6:R137-46 (1999).
	AHHH	Sevilya, Z., Loya, S., Hughes, S. H. & Hizi, A. "The ribonuclease H activity of the reverse transcriptases of human immunodeficiency viruses type 1 and type 2 is affected by the thumb subdomain of the small protein subunits. J. Mol. Biol. 311:957-71 (2001).
	AIII	Shehu-Xhilaga, M., Hill, M., Marshall, J.A., Kappes, J., Crowe, S.M. and Mak, J. (2002) The conformation of the mature dimeric human immunodeficiency virus type 1 RNA genome requires packaging of pol protein. J. Virol., 76, 4331-4340.
	AJJJ	Sluis-Cremer, N., Dmitrienko, G.I., Balzarini, J., Camarasa, M.J. and Parniak, M.A. (2000) Human immunodeficiency virus type 1 reverse transcriptase dimer destabilization by 1-[Spiro[4"-amino-2",2"-dioxo-1",2"-oxathiole-5",3'-[2', 5'-bis-O-(tert-butyl dimethylsilyl)-beta-D-ribofuranosyl]]]-3-ethylthy mine. Biochemistry, 39, 1427-1433.
	AKKK	Sluis-Cremer, N., Arion, D. & Parniak, M. A. "Destabilization of the HIV-1 reverse transcriptase dimer upon interaction with N-acyl hydrazone inhibitors. "Mol Pharmacol 62:398-405 (2002).
	ALLL	Smith, D.B. and Johnson, K.S. (1988) Single-step purification of polypeptides expressed in Escherichia coli as fusions with glutathione S-transferase. Gene, 67, 31-40.
	AMMM	Tachedjian, G., Moore, K.D., Goff, S. P. & Sluis-Cremer, N. "Efavirenz enhances the proteolytic processing of an HIV-1 pol polypeptide precursor and reverse transcriptase homodimer formation. FEBS Lett 579:379-384 (2005).
	ANNN	Tachedjian, G., Aronson, H.E., de los Santos, M., Seehra, J., McCoy, J.M. and Goff, S.P. (2003) Role of residues in the tryptophan repeat motif for HIV-1 reverse transcriptase dimerization. J. Mol. Biol., 326, 381-396.
	AOOO	Tachedjian et al., Nonnucleoside reverse transcriptase inhibitors are chemical enhancers of dimerization of the HIV type 1 reverse transcriptase. PNAS 98(13):7188-93 (2001)
	APPP	Tachedjian et al., Analysis of mutations and suppressors affecting interactions between the subunits of the HIV type 1 reverse transcriptase. PNAS 97(12):6334-9 (2000)
	AQQQ	Temiz, N. A. & Bahar, I. "Inhibitor binding alters the directions of domain motions in HIV-1 reverse transcriptase." Proteins 49:61-70 (2002).
	ARRR	Toh, H., Hayashida, H. and Miyata, T. (1983) Sequence homology between retroviral reverse transcriptase and putative polymerases of hepatitis B virus and cauliflower mosaic virus. Nature, 305, 827-829.
	ASSS	Tomonaga, K., Itagaki, S. I., Kashiwase, H., Kawaguchi, Y., Inoshima, Y., Ikeda, Y. & Mikami, T. "Characterization of an integrase mutant of feline immunodeficiency virus. Arch. Virol. 143, 1-14 (1998).
	ATTT	Tuske, S., Sarafianos, S.C., Clark, A. D., Jr., Ding, J., Naeger, L. K., White, K. L., Miller, M. D., Gibbs, C.S., Boyer, P. L., Clark, P., Wang, G., Gaffney, B. L., Jones R. A., Jerina, D. M., Hughes, S. H. & Arnold, E. "Structures of HIV-1 RT-DNA complexes before and after incorporation of the anti-AIDS drug tenofovir." Nat. Struct. Mol. Biol. 11:469-74 (2004).

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	AUUU	Wakefield, J.K., Jablonski, S.A. and Morrow, C.D. (1992) In vitro enzymatic activity of human immunodeficiency virus type 1 reverse transcriptase mutants in the highly conserved YMDD amino acid motif correlates with the infectious potential of the proviral genome. <i>J. Virol.</i> , 66, 6806-6812.
	AVVV	Wei, X., Decker, J.M., Liu, H., Zhang, Z., Arani, R.B., Kilby, J.M., Saag, M.S., Wu, X., Shaw, G.M. and Kappes, J.C. (2002) Emergence of resistant human immunodeficiency virus type 1 in patients receiving fusion inhibitor (T-20) monotherapy. <i>Antimicrob. Agents Chemother.</i> , 46, 1896-1905.
	AWWW	Wei et al., Antibody neutralization and escape by HIV-1. <i>Nature</i> 422:307-12 (2003)
	AXXX	Wu et al., Development of a novel trans-lentiviral vector that affords predictable safety. <i>Mol. Ther.</i> 2:47-55 (2000)
	AYYY	Wu, X., Conway, J.A., Kim, J. and Kappes, J.C. (1994) Localization of the Vpx packaging signal within the C terminus of the human immunodeficiency virus type 2 Gag precursor protein. <i>J. Virol.</i> , 68, 6161-6169.
	AZZZ	Wu, X., Liu, H., Xiao, H., Conway, J.A., Hehl, E., Kalpana, G.V., Prasad, V. and Kappes, J.C. (1999) Human immunodeficiency virus type 1 integrase protein promotes reverse transcription through specific interactions with the nucleoprotein reverse transcription complex. <i>J. Virol.</i> , 73, 2126-2135.
	AAAAA	Wu, X., Liu, H., Xiao, H., Conway, J.A., Hunter, E. and Kappes, J.C. (1997) Functional RT and IN incorporated into HIV-1 particles independently of the Gag/Pol precursor protein. <i>EMBO J.</i> , 16, 5113-5122.
	ABBBB	Wu, X., Liu, H., Xiao, H., Kim, J., Seshiah, P., Natsoulis, G., Boeke, J.D., Hahn, B.H. and Kappes, J.C. (1995) Targeting foreign proteins to human immunodeficiency virus particles via fusion with Vpr and Vpx. <i>J. Virol.</i> , 69, 3389-3398.
	ACCCC	Yu, Q., Ottmann, M., Pechoux, C., Le Grice, S. & Dariix, J.-L. "Mutations in the Primer Grip of Human Immunodeficiency Virus Type 1 Reverse Transcriptase Impair Proviral DNA Synthesis and Virion Maturation." <i>Virology</i> 219:29-36 (1996).
	ADDDD	Zack, J.A., Arrigo, S.J., Weitsman, S.R., Go, A.S., Haislip, A. and Chen, I.S. (1990) HIV-1 entry into quiescent primary lymphocytes: molecular analysis reveals a labile, latent viral structure. <i>Cell</i> , 61, 213-222.

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